QP Code: 403008 Reg. No......

Final Year B. Pharm (Ayurveda) Degree Supplementary Examinations August 2024

Pharmaceutical Analysis II

Time: 3 hrs Total Marks: 100

- Answer all questions to the point neatly and legibly
 Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw diagrams wherever necessary

Essays: (2x10=20)

- 1. Explain the working principle of HPLC with the help of neat labeled diagram. List the detectors used in HPLC and describe the functions of any one.
- 2. Explain in detail Gel filtration.

Short notes: (10x5=50)

- 3. State and explain Beers Lambert's law, mention its deviation and reasons for deviation.
- 4. Explain any one ionization technique in mass spectroscopy.
- 5. Construction of dropping mercury electrode.
- 6. Explain theory of fluorescence and factors affecting fluorescence intensity.
- 7. Construction and working of flame photometer.
- 8. Explain about electronic transitions in UV spectroscopy.
- 9. Note on GLP.
- 10. Describe ilkovic equation and its application.
- 11. Explain the theory of chemical shift in NMR spectroscopy.
- 12. Note on thermogravimetry.

Answer briefly: (10x3=30)

- 13. Physical methods of detect components in paper chromatography.
- 14. Importance of supporting electrolytes and maxima suppressors in getting proper polarographic wave.
- 15. Define fluorescence and phosphorescence.
- 16. Note on shielding and deshielding in NMR spectroscopy.
- 17. Types of peaks in mass spectra.
- 18. Define half wave potential and diffusion current.
- 19. Note on method of preparing TLC plates.
- 20. Factors affecting migration of ions in paper electrophoresis.
- 21. What is retention time and retention volume.
- 22. Name the different types of electrons. Where are they present.
